

KIC 008295661

Q1-17 DR25 TCE Parameters

TCE	Run Type	KOI?	Period (Days)	Epoch (BKJD)	Depth (ppm)	Duration (Hours)	MES	SNR	R_{\star} (R_{\odot})	T_{\star} (K)	R_p (R_{\oplus})	S_p (S_{\oplus})
008295661-01	OBS	No	367.665880	301.349295	954.6	52.677	9.6	11.5	0.92	5896	4.22	0.90

Robovetter Results

TCE	Run Type	Disp	Score	N	S	C	E	Comments
008295661-01	OBS	FP	0.00	1	0	0	0	INDIV_TRANS_MARSHALL_SKYE—LPP_DV—ALL_TRANS_CHASES—INCONSISTENT_TRANS—CENT_FEW_DIFFS

Notes: OBS = Observed. INJ = Injected. INV = Inverted. SCR = Scrambled.

N = Not Transit-Like. S = Stellar Eclipse. C = Centroid Offset. E = Ephemeris Match.

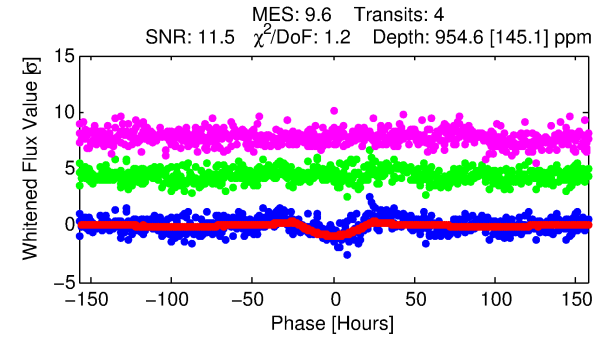
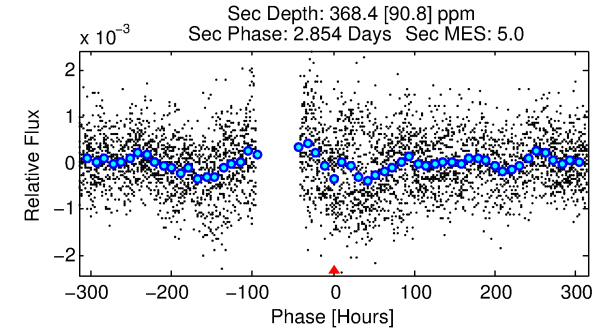
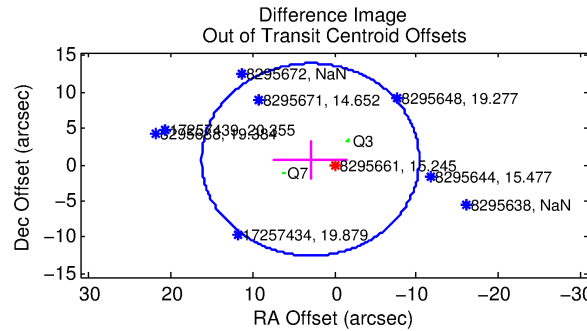
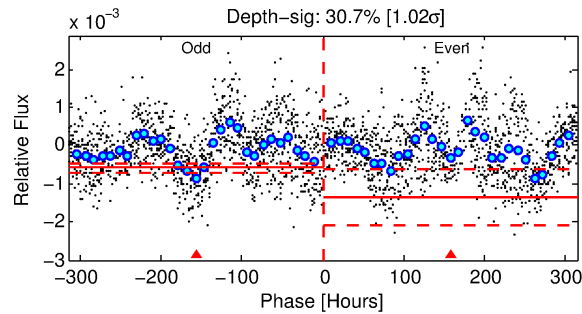
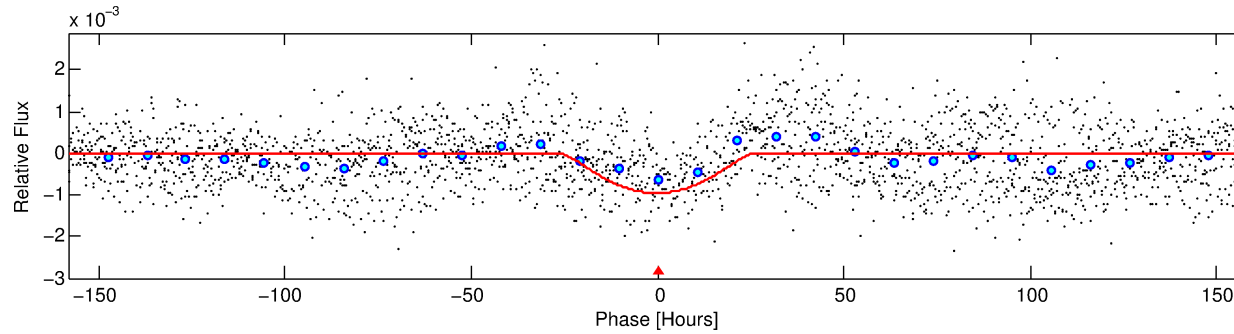
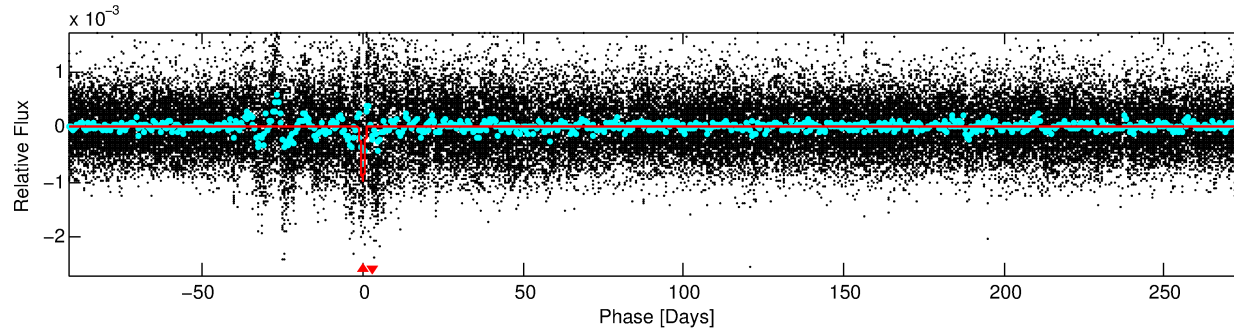
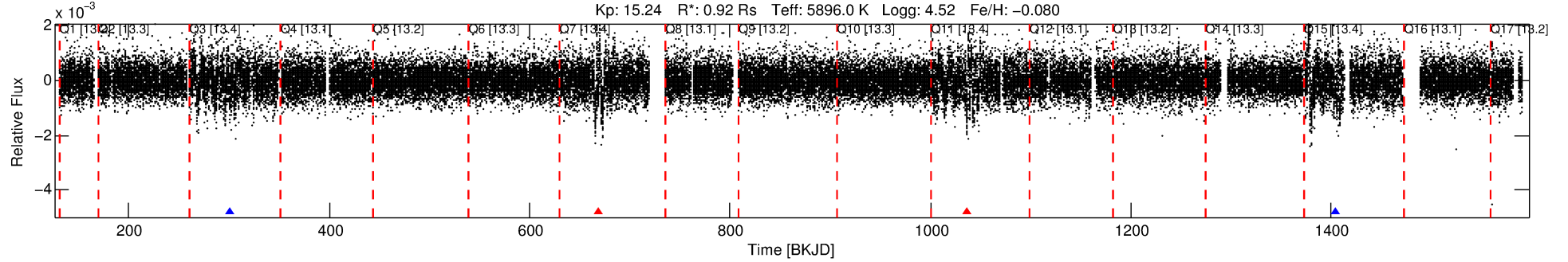
See http://exoplanetarchive.ipac.caltech.edu/docs/API_kepcandidate_columns.html#proj_disp_col for comment definitions.

Ephemeris Match Information For 008295661-01

No Significant Match Found

DV One-Page Summary

KIC: 8295661 Candidate: 1 of 1 Period: 367.666 d



DV Fit Results:

Period = 367.66588 [0.05172] d
Epoch = 301.3493 [0.0818] BKJD
Rp/R* = 0.0422 [0.0289]
a/R* = 19.16 [5.42]
b = 0.98 [0.06]
Seff = 0.89 [0.29]
Teq = 248 [20] K
Rp = 4.22 [3.08] Re
a = 1.0075 [0.2123] AU
Ag = 11541.47 [16434.48] [0.70σ]
Teff = 3974 [1387] K [2.69σ]

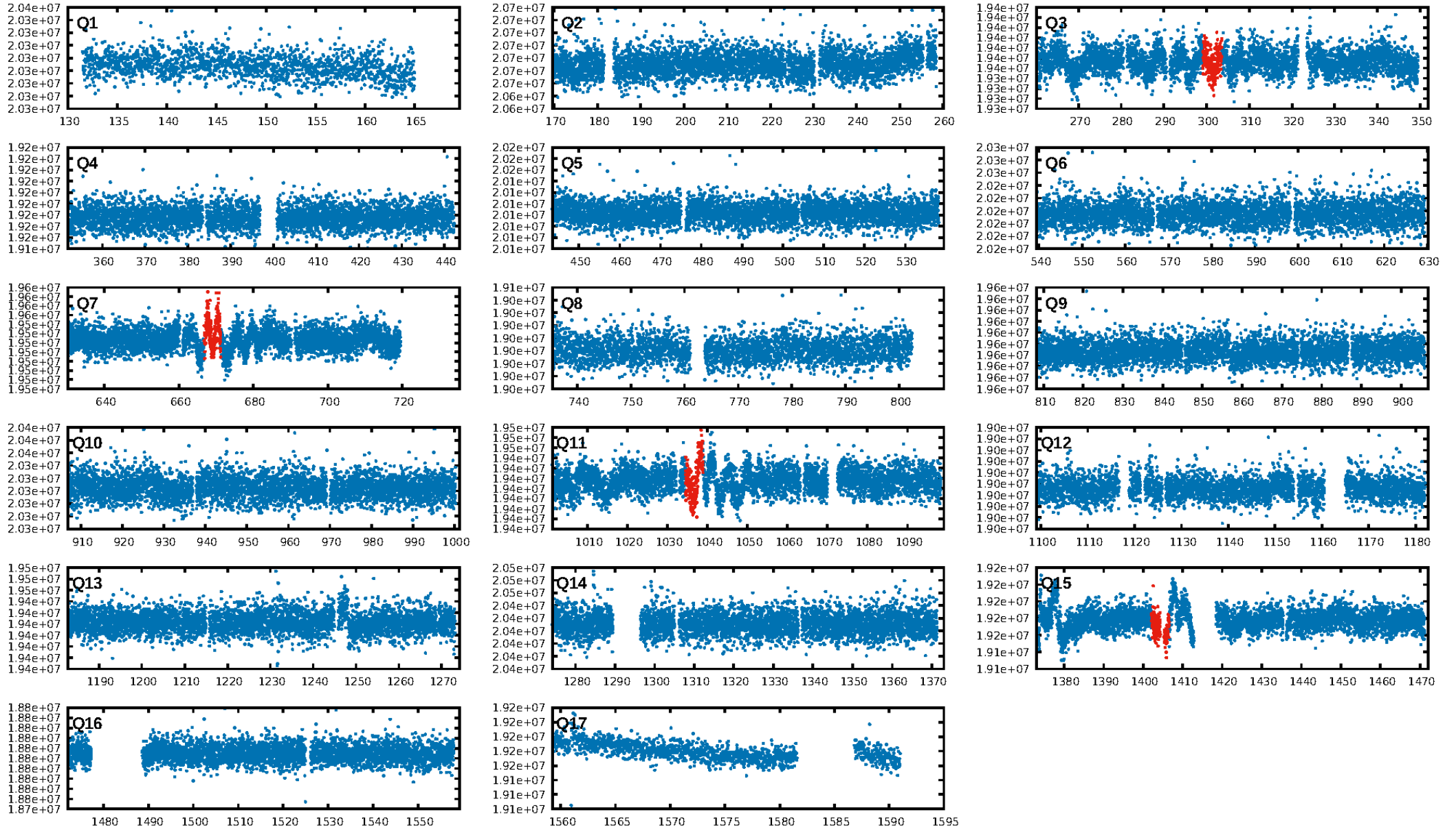
DV Diagnostic Results:

ShortPeriod-sig: N/A
LongPeriod-sig: N/A
ModelChiSquare2-sig: 0.4%
ModelChiSquareGof-sig: 100.0%
Bootstrap-pfa: 3.69e-12
RollingBand-fgt: 0.50 [2/4]
GhostDiagnostic-chr: 2.174
Centroid-sig: 16.3%
Centroid-so: 0.862 arcsec [0.70σ]
OotOffset-rm: 3.023 arcsec [0.68σ]
OotOffset-st: 0/2/0/0 [2]
KicOffset-rm: 3.016 arcsec [0.69σ]
KicOffset-st: 0/2/0/0 [2]
DiffImageQuality-fgm: 0.00 [0/2]
DiffImageOverlap-fno: 1.00 [2/2]

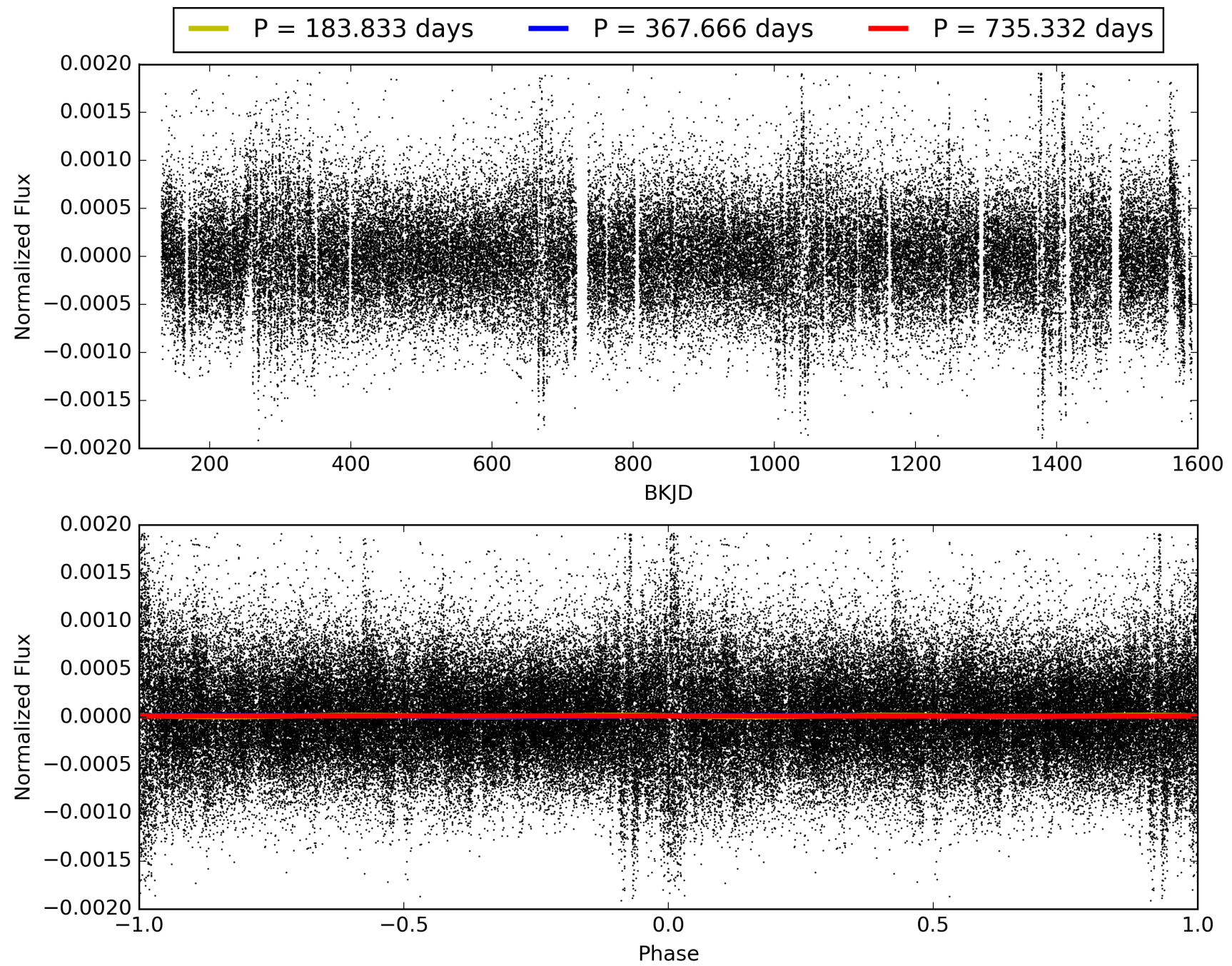
Software Revision: svn+ssh://murzim/repo/soc/tags/release/9.3.42@60958 -- Date Generated: 30-Jan-2016 13:38:38 Z

This Data Validation Report Summary was produced in the Kepler Science Operations Center Pipeline at NASA Ames Research Center

TCE 008295661-01, PDC Light Curves

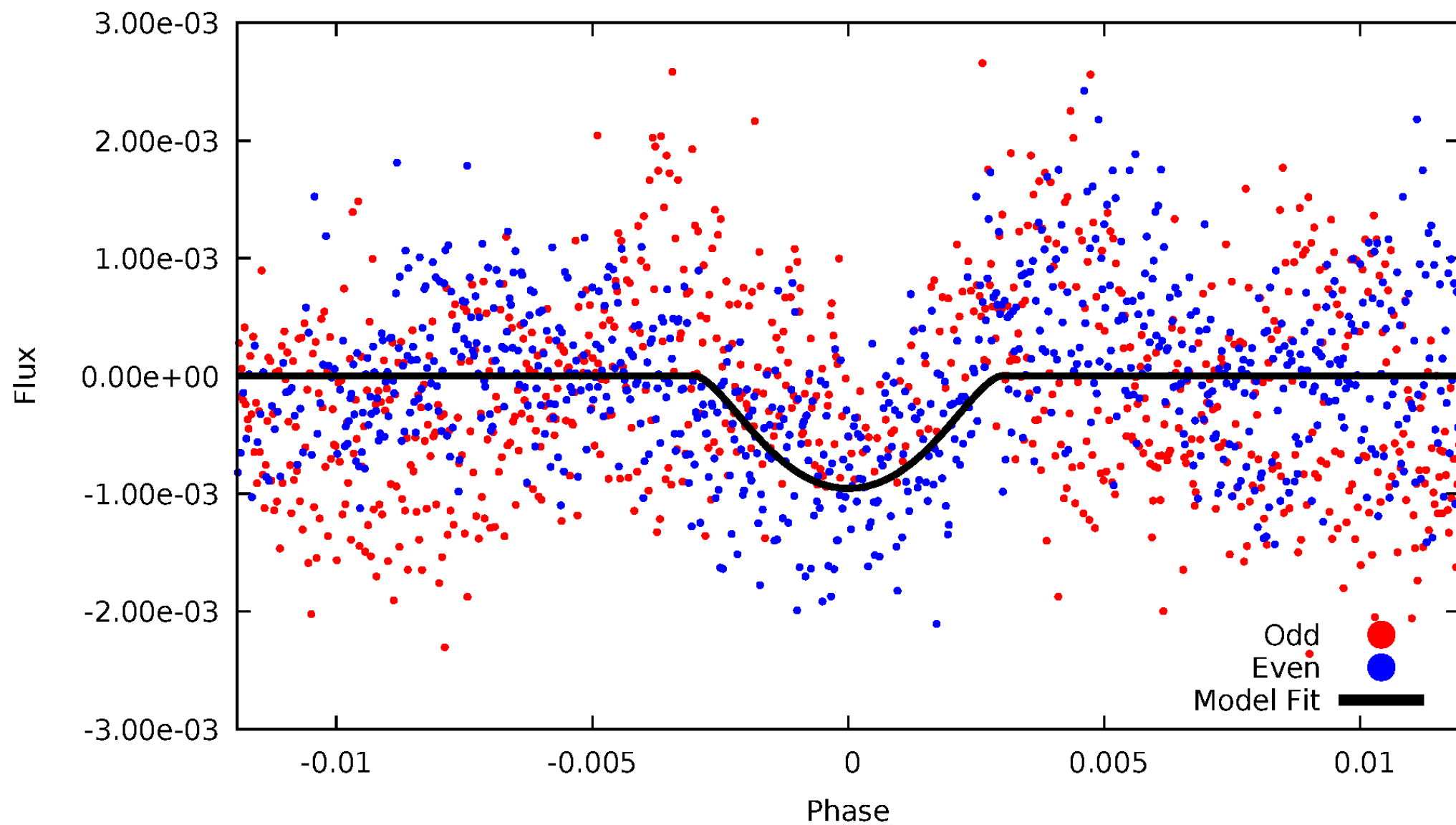


TCE 008295661-01



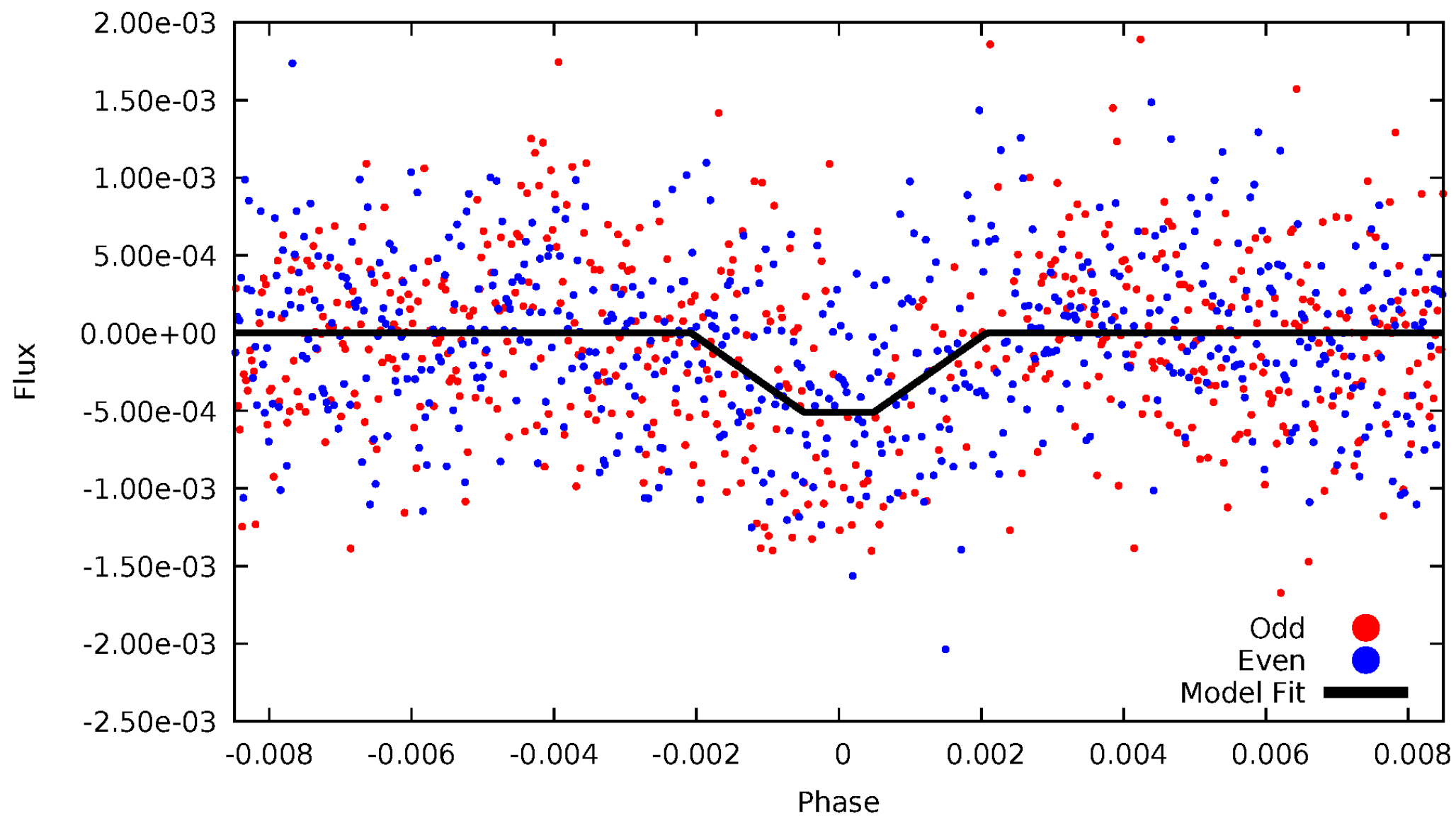
DV Odd/Even

TCE 008295661-01



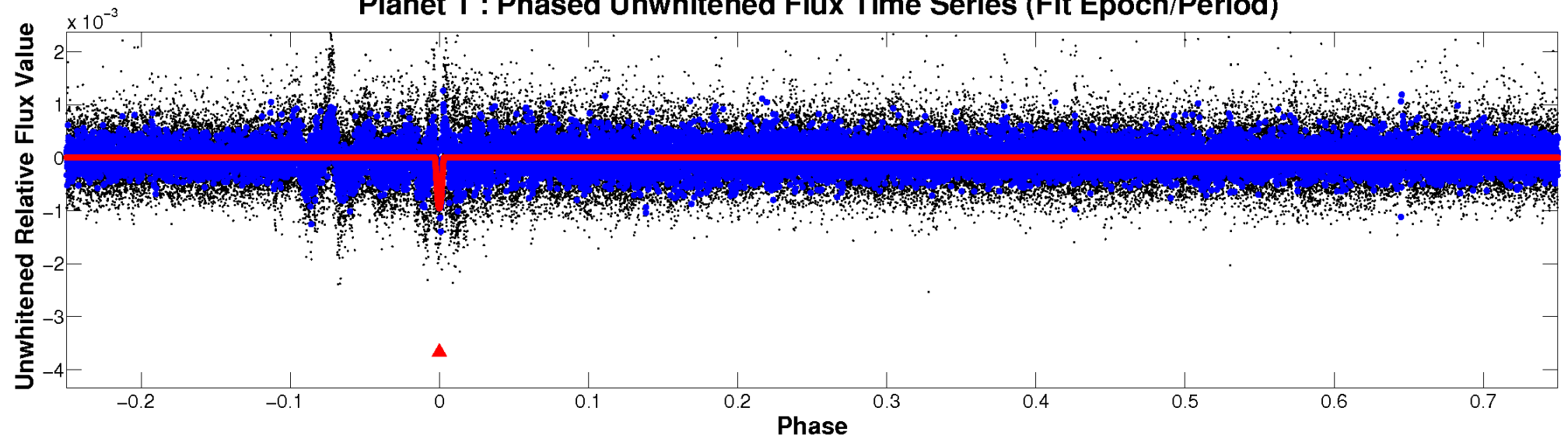
ALT Odd/Even

TCE 008295661-01

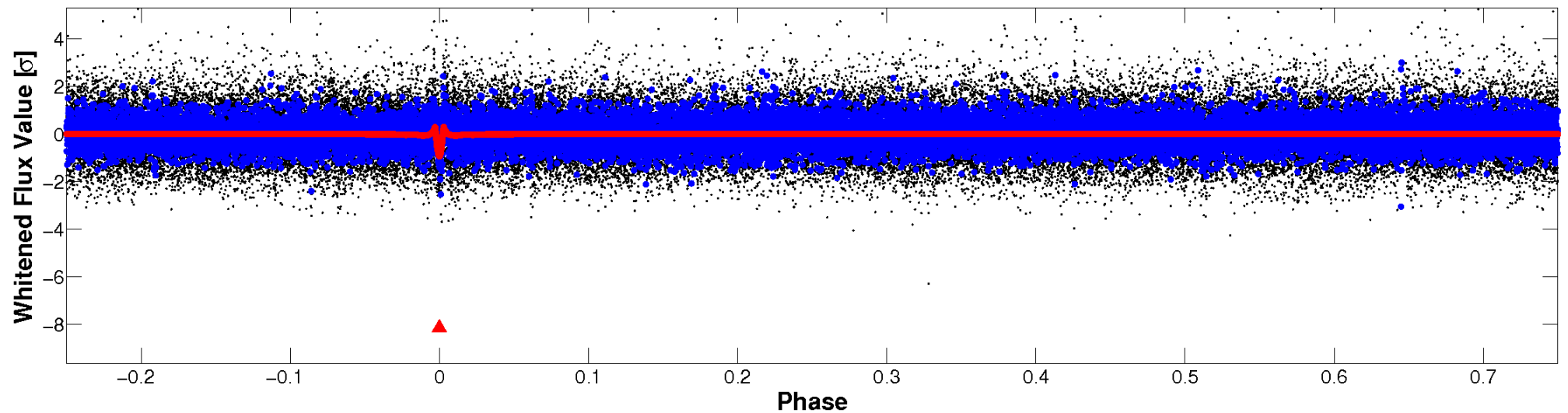


Non-Whitened Vs. Whitened Light Curve

Planet 1 : Phased Unwhitened Flux Time Series (Fit Epoch/Period)

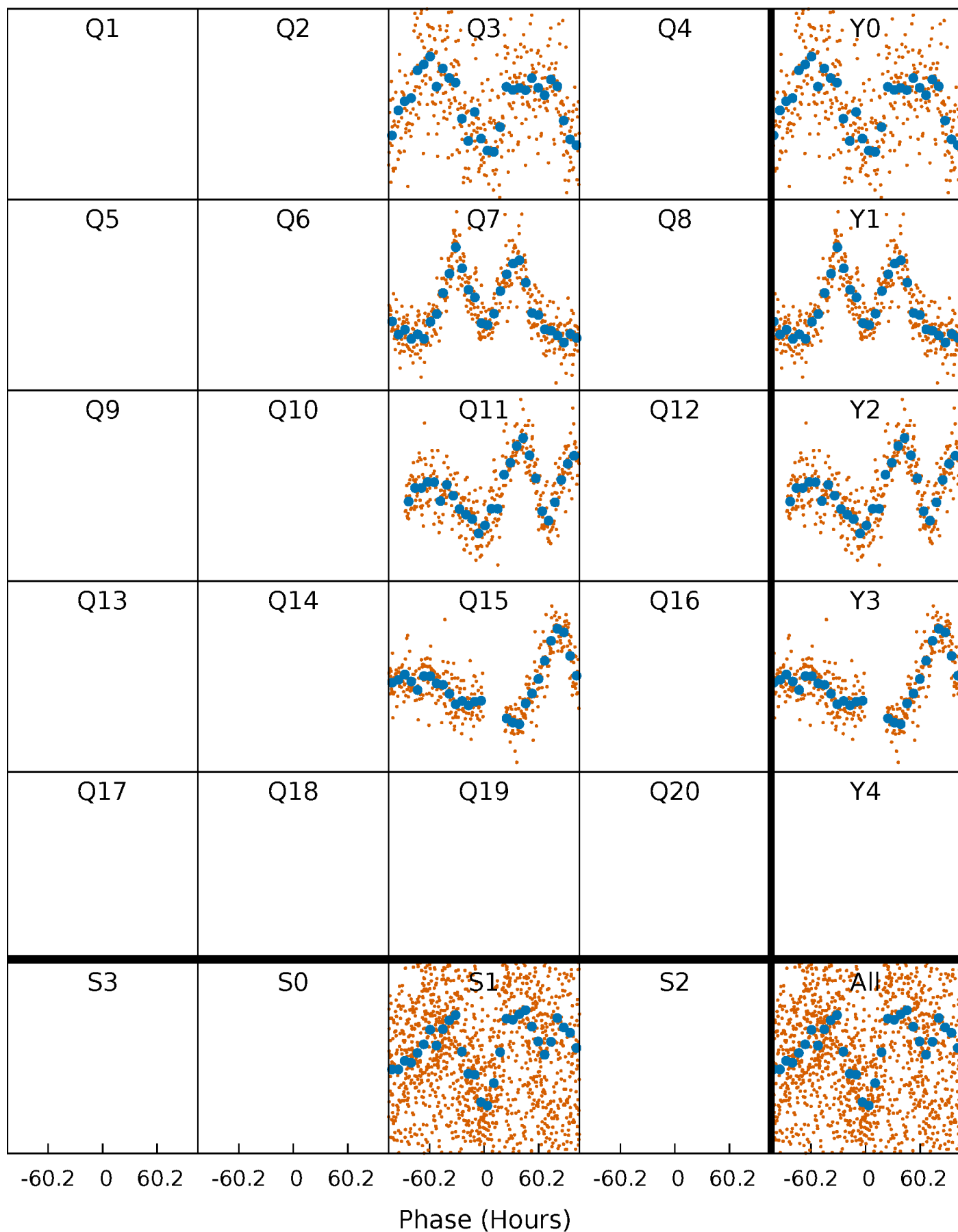


Planet 1 : Phased Whitened Flux Time Series (Fit Epoch/Period)



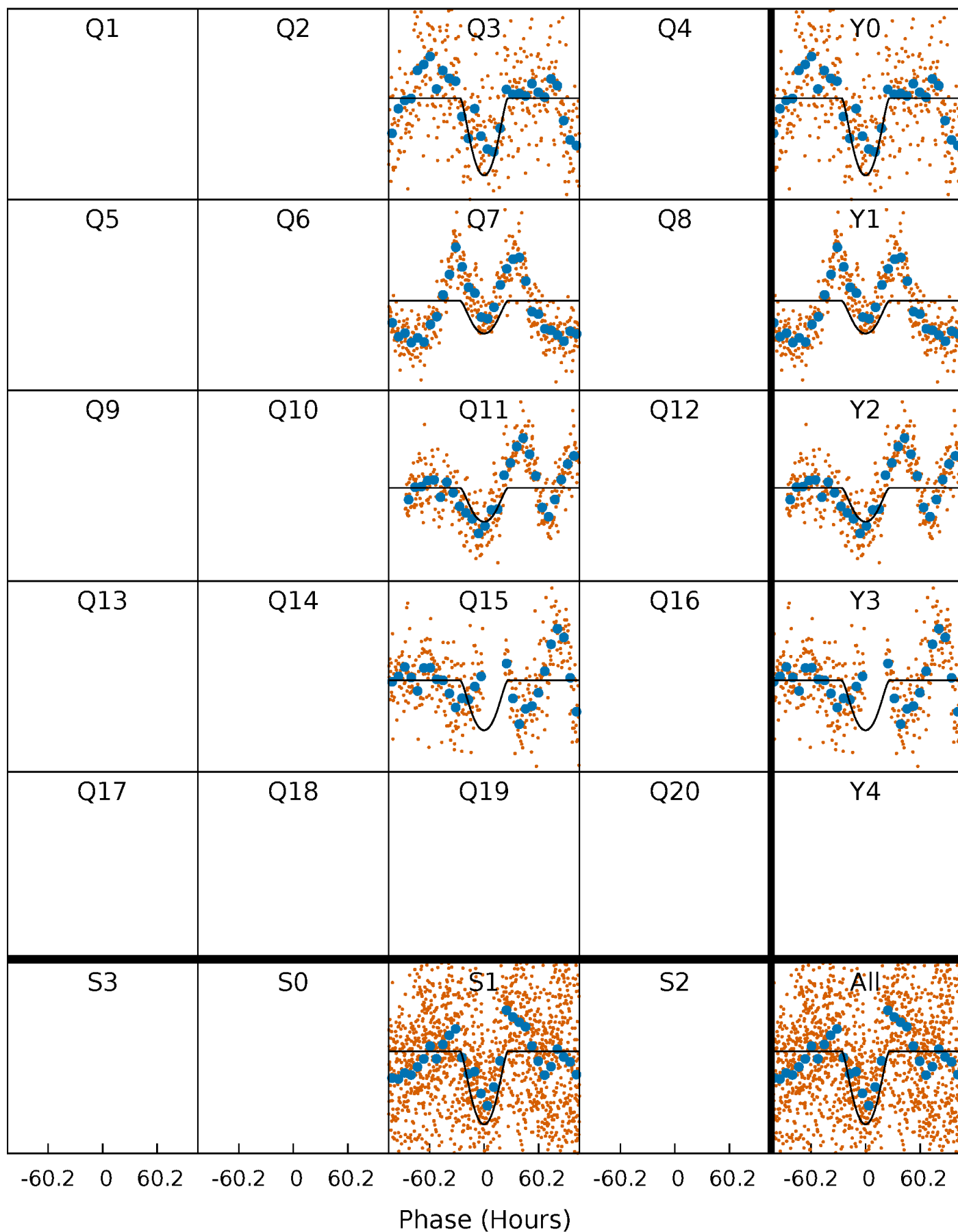
PDC Quarter-Phased Transit Curves

TCE 008295661-01 P=367.665880 Days $T_0=301.349295$ (BKJD)



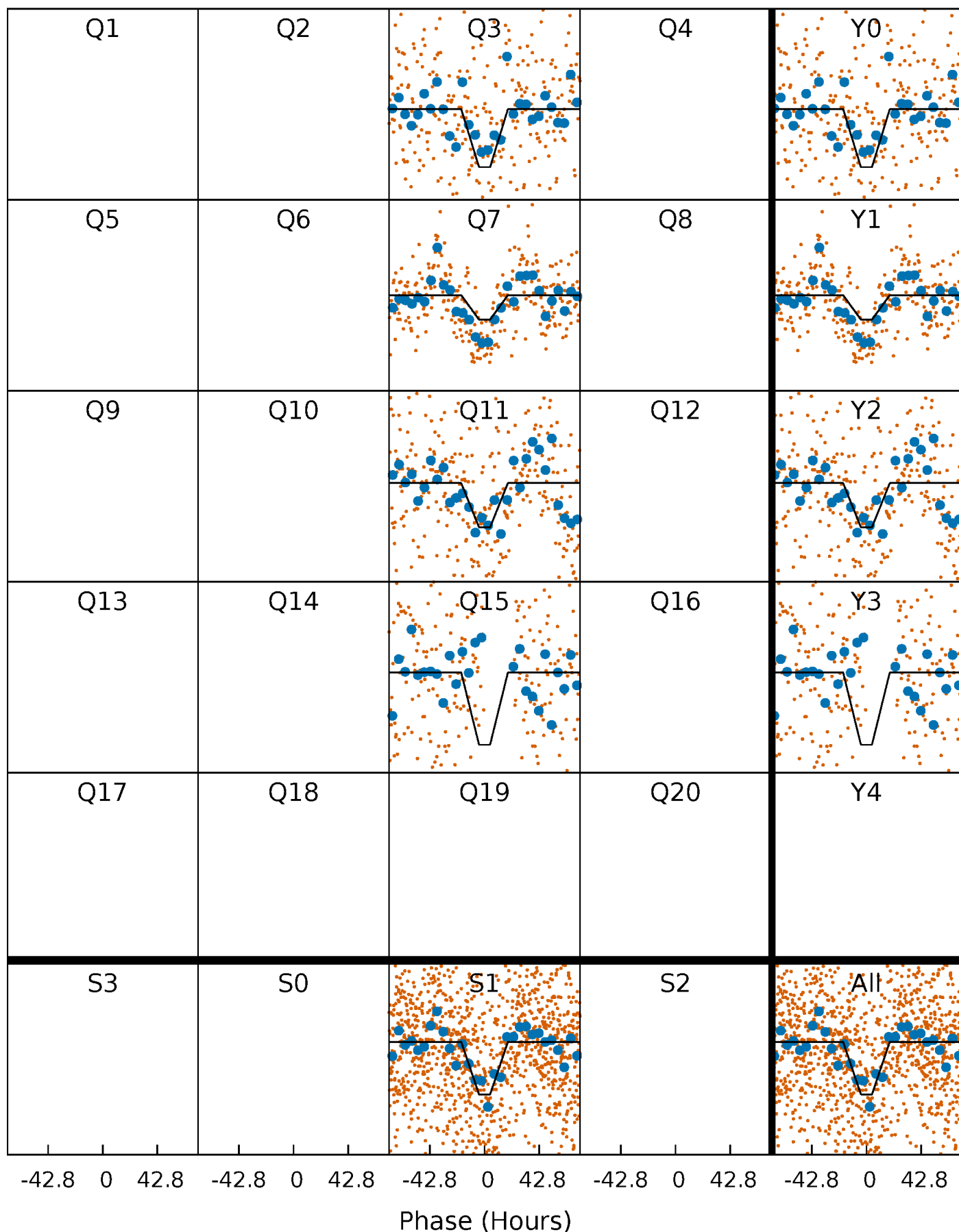
DV Quarter-Phased Transit Curves

TCE 008295661-01 P=367.665880 Days $T_0=301.349295$ (BKJD)



Alt. Detrend Quarter-Phased Transit Curves

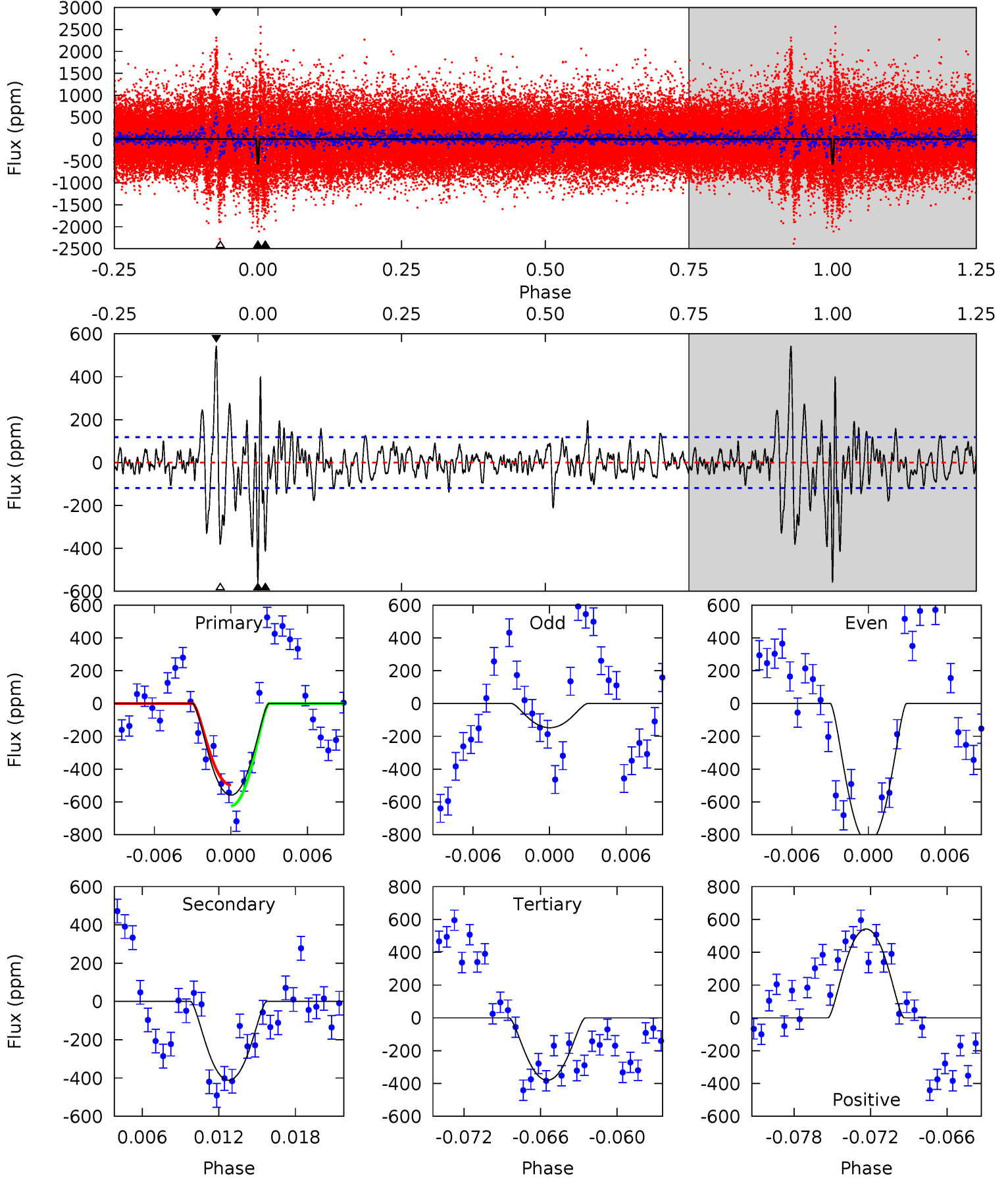
TCE 008295661-01 P=367.565689 Days $T_0=301.631376$ (BKJD)



DV Model-Shift Uniqueness Test

008295661-01, P = 367.665880 Days, E = 301.349295 Days

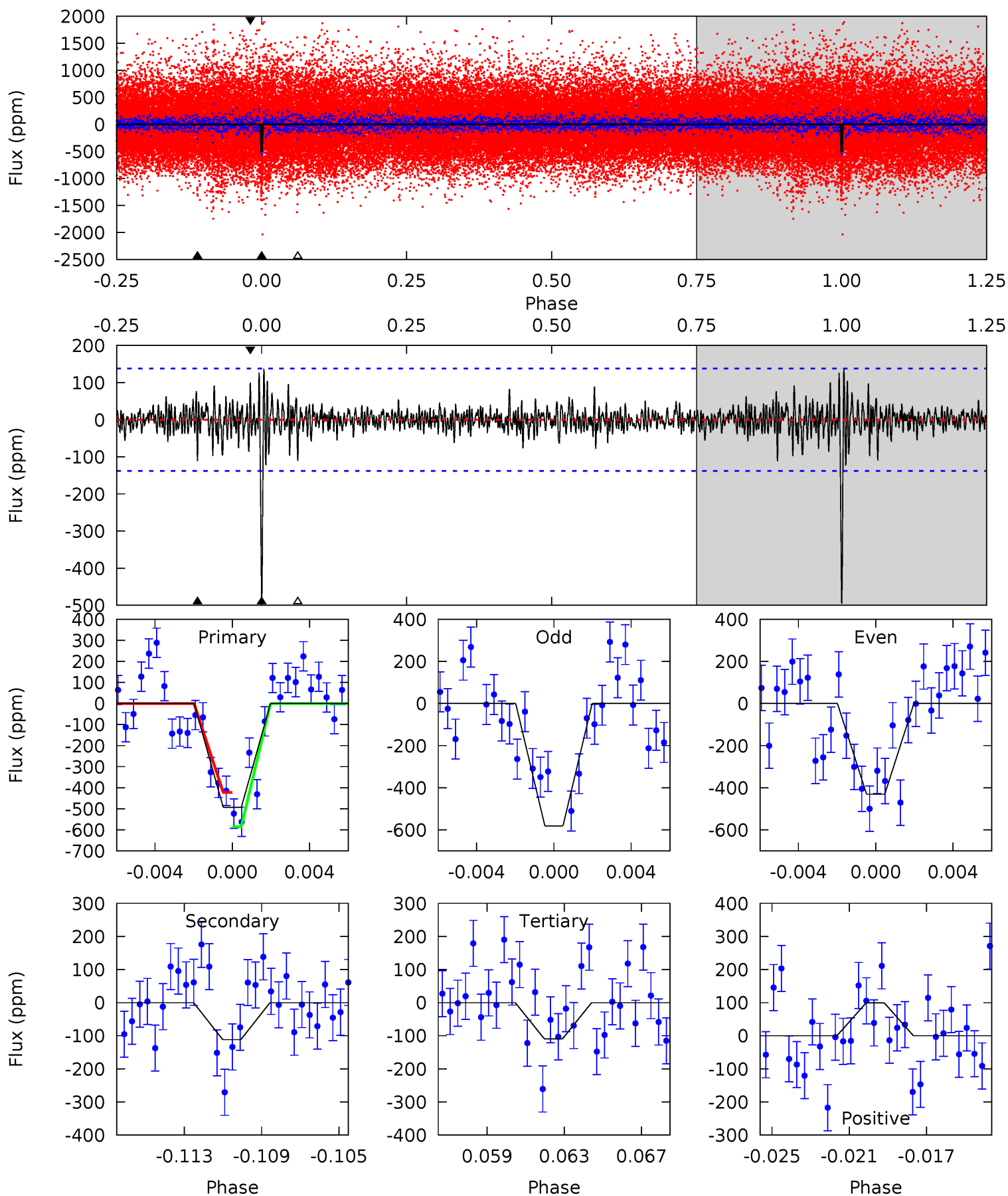
Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
24.1	17.8	16.4	23.4	5.12	2.75	3.66	7.72	0.75	1.36	-5.61	14.8	1.36	0.49	2.71



Alt Model-Shift Uniqueness Test

008295661-01, P = 367.565689 Days, E = 301.631376 Days

Pri	Sec	Ter	Pos	FA ₁	FA ₂	F _{Red}	Pri-Ter	Pri-Pos	Sec-Ter	Sec-Pos	Odd-Evn	DMM	Shape	TAT
18.6	4.20	4.12	3.73	5.19	2.86	0.97	14.4	14.8	0.08	0.47	2.80	0.92	0.22	3.01



Stellar Parameters For KIC 008295661

	$T_{\text{eff}}(K)$	$\log(g)$	[Fe/H]	R (R_{\odot})	M (M_{\odot})	p_{\star} ($\text{g}\cdot\text{cm}^{-3}$)
	5896^{+146}_{-175}	$4.518^{+0.042}_{-0.168}$	$-0.080^{+0.250}_{-0.300}$	$0.916^{+0.229}_{-0.082}$	$1.008^{+0.104}_{-0.127}$	$1.849^{+0.418}_{-0.849}$
	+2%/-3%	+1%/-4%	+312%/-375%	+25%/-9%	+10%/-13%	+23%/-46%
Source	PHO1	KIC0	KIC0	DSEP		

KIC = Kepler Input Catalog; PHO = Photometry; SPE = Spectroscopy; AST = Asteroseismology
 TRA = Transits; DESP = Dartmouth Models; MULT = Multiple Models

Secondary Eclipse Parameters for KIC 008295661-01 / KOI

Detrend	Depth (ppm)	R_p (R_{\oplus})	T_{max} (K)	T_{obs} (K)	A_{obs}
DV	-412 ± 23	$4.69^{+3.01}_{-2.83}$	353^{+22}_{-15}	4214^{+2025}_{-658}	10396^{+52938}_{-6577}
Alt.	-112 ± 27	$3.09^{+2.66}_{-2.03}$	353^{+19}_{-14}	3827^{+2229}_{-670}	6083^{+42584}_{-4387}

T_{max} = Theoretical Maximum Planetary Temperature

T_{obs} = Observed Planetary Temperature (Assuming $A=0.3$)

A_{obs} = Observed Albedo (Assuming $T=0$)

If a secondary eclipse is present, the system is likely an EB if $T_{obs} \gg T_{max}$ AND $A_{obs} \gg 1.0$

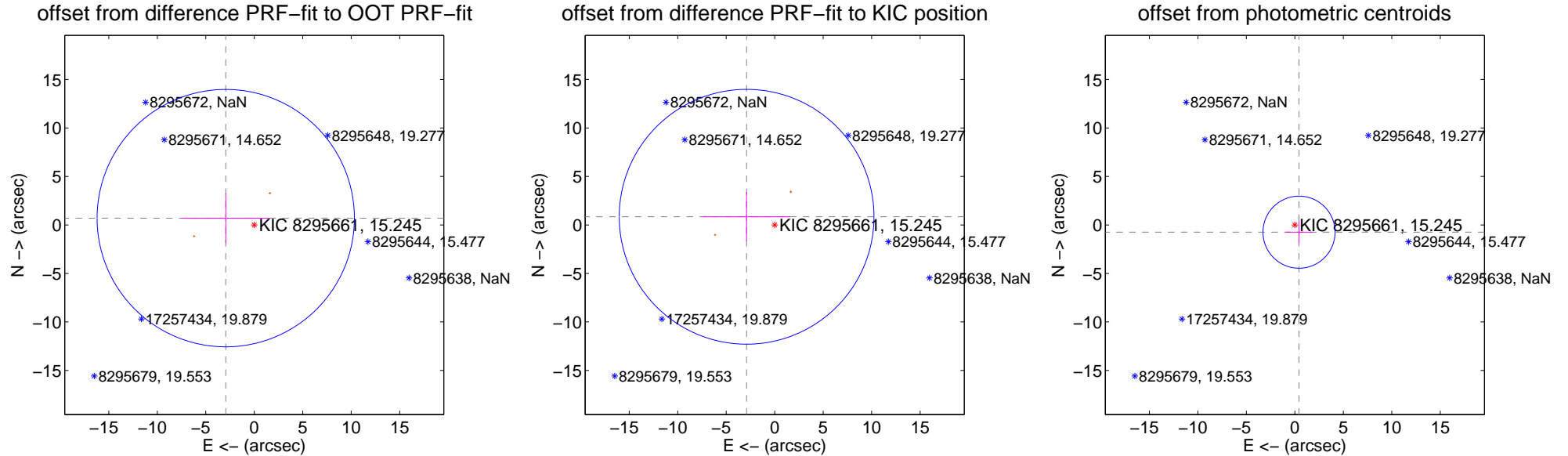
DV Centroid Data

Supplemental centroid analysis for 008295661-01. Kepler magnitude: 15.24. Transit SNR 11.47

There are 0 quarters with good PRF difference image offsets

The direct PRF centroid is offset from the target star catalog position by about 0.15 arcsec

	Distance in arcsec	Distance / σ	Δ RA	Δ Dec
PRF-fit source offset from OOT	3.023 ± 4.423	0.68	2.941 ± 4.506	0.702 ± 2.558
PRF-fit source offset from KIC position	3.016 ± 4.379	0.69	2.896 ± 4.500	0.843 ± 2.554
photometric centroid source offset	0.86 ± 1.24	0.70	-0.43 ± 1.38	-0.75 ± 1.19



Centroid source offsets from the target star reconstructed from PRF and photometric centroids. Sky blue crosses: good quarterly centroid offsets; Vermillion crosses: bad quarterly centroid offsets; magenta cross: average over quarters. Length of the crosses: one- σ uncertainty. Blue circle: three- σ . Red *: target star. Blue *: Other stars. Text next to a star gives its KIC ID and kepmag. KIC IDs > 15,000,000 are from the UKIRT catalog.

white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.

Q1 no difference image



Q1 no OOT image



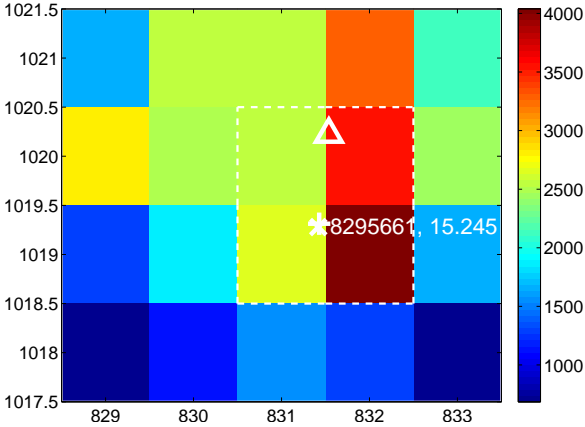
Q2 no difference image



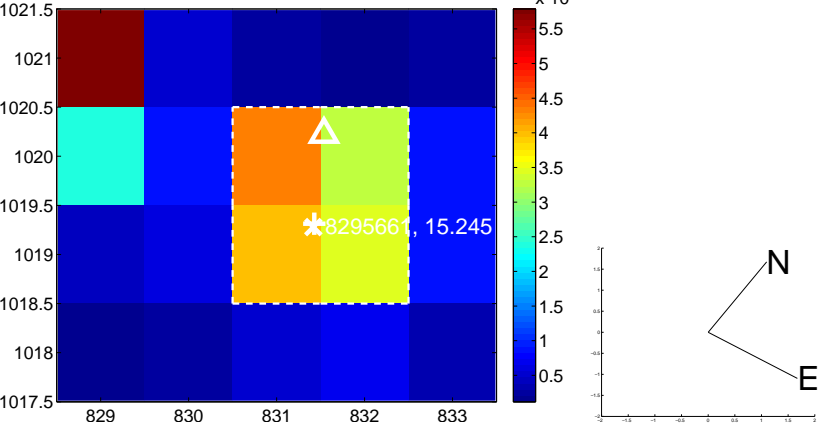
Q2 no OOT image



Q3 difference image. Poor Quality



Q3 OOT image



Q4 no difference image



Q4 no OOT image



white ×: KIC target position; +: OOT centroid; △: difference centroid. red ✕: large negative pixel value.

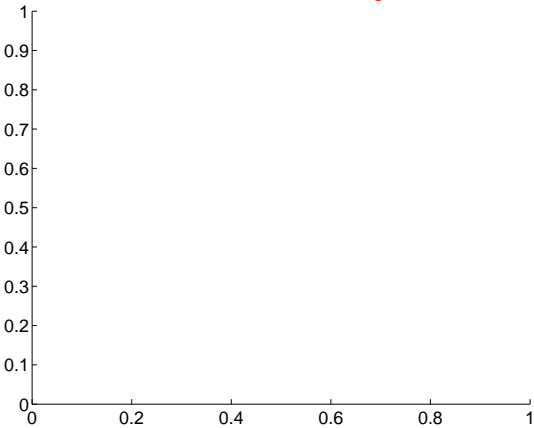
Q5 no difference image



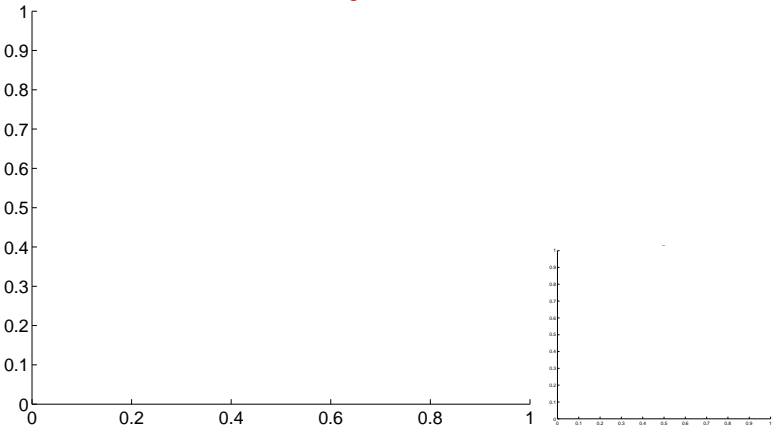
Q5 no OOT image



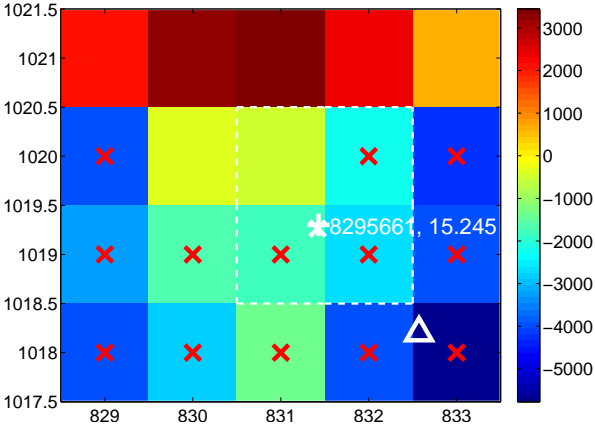
Q6 no difference image



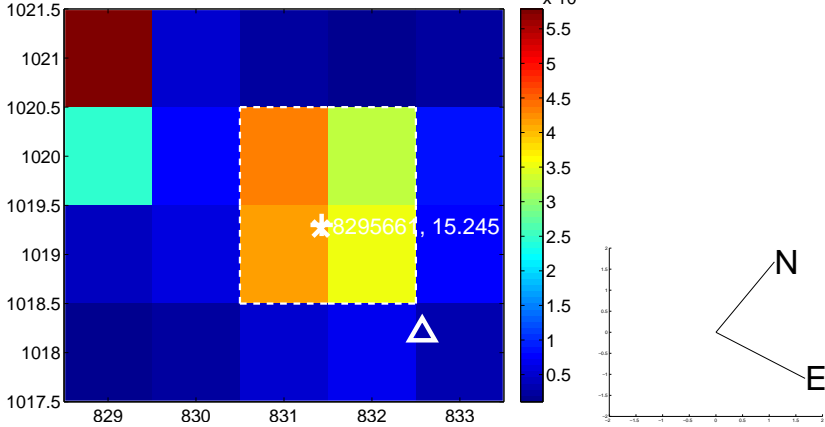
Q6 no OOT image



Q7 difference image. Poor Quality



Q7 OOT image



Q8 no difference image



Q8 no OOT image



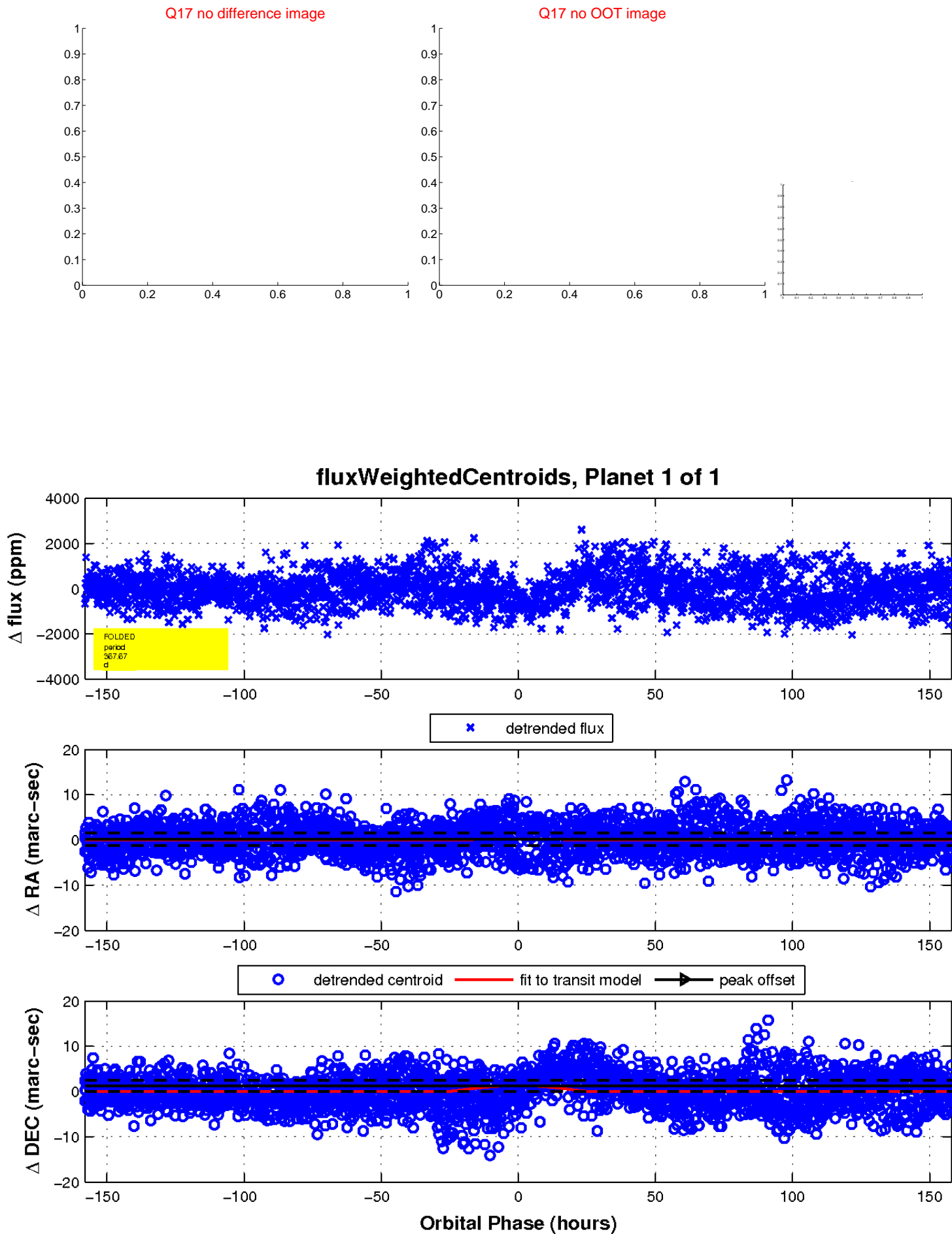
white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



white \times : KIC target position; $+$: OOT centroid; \triangle : difference centroid. red \times : large negative pixel value.



UKIRT Image

Declination

